



Solve each problem.

- 1) Write your answer as a mixed number (if possible). 2) Reduce the ratio to it's lowest form.

$$5 \frac{4}{9} - \frac{22}{6} =$$

$$56 : 63 = \underline{\hspace{2cm}}$$

- 3) Fill in the missing number.

In	36	54	24		42
Out	6	9	4	8	7

4) $10 + (10^2 - 7) + 6 - 4$

5) $7 + 3^2 + (4 \times 3) + 72 \div 8$

- 6) Which option shows the fractions ordered least to greatest?

A. $\frac{8}{9} < \frac{8}{15} < \frac{8}{11}$

B. $\frac{8}{15} < \frac{8}{11} < \frac{8}{9}$

C. $\frac{8}{11} < \frac{8}{15} < \frac{8}{9}$

D. $\frac{8}{9} < \frac{8}{11} < \frac{8}{15}$

- 7) Solve the problem.
 2^3

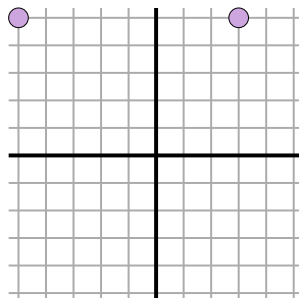
- 8) Write in exponential notation.
 $4 \times 4 \times 4 \times 4 \times 4$

- 9) 72 copies in 8 minutes

Ratio = _____

Rate = _____ copies per minute

- 10) Find the distance between points.

**Answers**

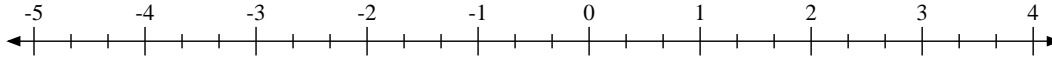
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. **Label** _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____



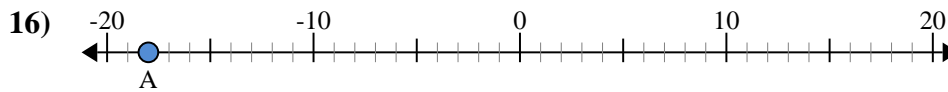
Solve each problem.

13) What number is the opposite of -31?

14) Mark the location of $-4\frac{2}{3}$



15) On Monday Isabel spent $2\frac{2}{5}$ hours studying. On Tuesday she spent another $2\frac{5}{10}$ hours studying. What is the combined length of time she spent studying? Write your answer as an improper fraction.



a. What is the value of 'A'?

b. How far is 'A' from 0 (absolute value)?

17) A carpenter used 2 boxes of nails to build 7 bird houses. He used ____ of a box on each bird house.

18) A pet store was selling mice 6 for \$10.44. If they ended up selling 2 mice, how much money would they have earned?

19) At a pet store the ratio of cats to dogs sold was 7 : 2. If there were 42 cats that were sold, how many dogs were sold?

20) For each pound there are 16 ounces. This can be expressed using the equation $y \times 16 = Z$, where y is equal to the number of pounds and Z is equal to the total number of ounces. Using this equation find the total ounces in 4 pounds.



Solve each problem.

- 1) Write your answer as a mixed number (if possible). 2) Reduce the ratio to it's lowest form.

$$5 \frac{4}{9} - \frac{22}{6} =$$

$$56 : 63 = \underline{8 : 9}$$

- 3) Fill in the missing number.

In	36	54	24	48	42
Out	6	9	4	8	7

Rule: Div 6

$$\begin{aligned} 4) \quad & 10 + (10^2 - 7) + 6 - 4 \\ & 10 + (100 - 7) + 6 - 4 \\ & 10 + 93 + 6 - 4 \\ & 103 + 6 - 4 \\ & 109 - 4 \\ & 105 \end{aligned}$$

$$5) \quad 7 + 3^2 + (4 \times 3) + 72 \div 8$$

$$7 + 3^2 + 12 + 72 \div 8$$

$$7 + 9 + 12 + 72 \div 8$$

$$7 + 9 + 12 + 9$$

$$16 + 12 + 9$$

$$28 + 9$$

$$37$$

- 6) Which option shows the fractions ordered least to greatest?

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D. $\frac{8}{9} < \frac{8}{11} < \frac{8}{15}$

- 7) Solve the problem.

$$2^3$$

- 8) Write in exponential notation.

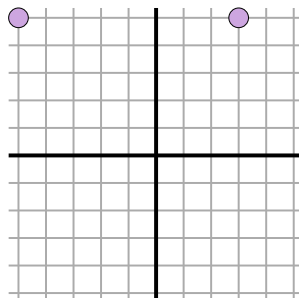
$$4 \times 4 \times 4 \times 4 \times 4$$

- 9) 72 copies in 8 minutes

$$\text{Ratio} = \underline{72:8}$$

$$\text{Rate} = \underline{9} \text{ copies per minute}$$

- 10) Find the distance between points.



$$\sqrt{(3 - -5)^2 + (5 - 5)^2}$$

$$\sqrt{(64) + (0)}$$

- 11) What is 200% of 114?

- 12) What is 25% of 104?

Answers

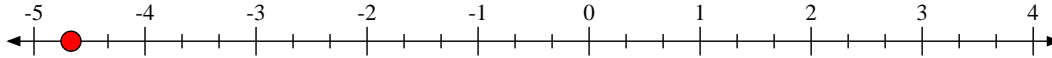
1. $1 \frac{14}{18}$ 5nf1
2. $8 : 9$ 6rn3c
3. 48 6rn3a
4. 105
5. 37
6. B 3nf3d
7. 8 6ee1
8. 4^5 6ee1
9. $72:8$ 9 6rn3b
10. 8 6ns8
11. 228 6rn3c
12. 26 6rn3c
13. 31 6ns6a
14. Label 6ns6c
15. $49 \frac{9}{10}$ 5nf2
16. -18 18 6ns7c
17. $\frac{2}{7}$ 6rn2
18. $\$3.48$ 6rn3b
19. 12 6rn3c
20. 64 6rn3d



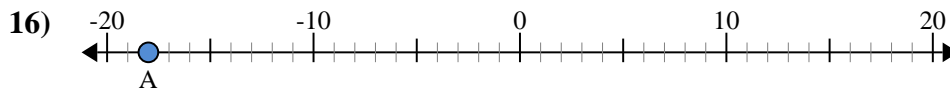
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